Missouri
Department
of Transportation

MoDOT

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Pete K. Rahn, Director

ADDENDUM 001
REQUEST FOR PROPOSAL
D607-120-RW

Bidders shall acknowledge receipt of Addendum 001 (ONE) by signing and including it with the original bid. The due date for receipt of bids remains unchanged by this Addendum. Accordingly, the following clarifications, questions and answers are believed to be of general interest to all potential Bidders. All other terms and conditions remain unchanged and in full force.

Name and Title of Signer (Print or type)	Name and Title of Department Authority Terri Mount General Services Specialist
Bidder Signature _____ (Signature of person authorized to sign)	Department of Transportation Terri Mount (Authorizing Signature)
Date Signed:	Date Signed: 4/19/07

GENERAL QUESTIONS/CLARAFICATIONS

QUESTION 1.

In regards to the requested "Web Based" System, are looking for a system that:
- **functions fully on the web with absolutely no interaction with a PC or Network in your locations?**
- **moves data through the web so that you can you can do some of the other features in the document like plot information directly to your ATMS Software maps.**
- **could give you more features and functionality that was client based with access to the information from any system with internet access?**

ANSWER 1.

The web site must be able to be accessed with full functionality from any computer that is connected to the Internet with Internet Explorer Version 5.0 or higher. MoDOT is looking to access the information whether or not the users are logging in from their MoDOT computer or looking up the data using a personal, hotel, or any other device that provides internet access as long as they have a user ID and password to log onto the site.

QUESTION 2.
Can you describe what your "Changeable Message Boards" look like and specifications or direct us to a web site where I can find this information.

ANSWER 2.

The Missouri Department of Transportation uses various brands of Changeable Message Boards similar to the Ver-Mac in the attached photo. Boards are similar, but not limited, to the Ver-Mac Model PCMS 1210. Web site link attached. http://www.ver-mac.com/products/index.html

QUESTION 3.
Can you describe the Vehicle "Ground Temperature Sensors" or direct us to a web site where I can find this information.

ANSWER 3.

The typical Pavement temperature sensors installed in MoDOT equipment is, but not limited to, the Sprague "RoadWatch" Web site link attached. http://www.cvgrp.com/roadwatch.aspx

QUESTION 4.
In the Desired Options section on page 5 you've indicated that you would like to capture and send data from a vehicle's data bus. What data would you like to capture? Which vehicle manufacture(s) and models do you use?

ANSWER 4.

MoDOT's typical field equipment includes but is not limited to: International 7400 & 4900 series Dump trucks. John Deere 6620 & 7520 series Tractors. Chevy , Ford, and Dodge ½ tons pickups and a wide variety of other on road and off equipment, some of this equipment will not have a data bus. MoDOT is looking for the vendor to provide us with a proposal to track the above listed equipment and any future equipment that we may implement.

QUESTION 5.
In the Desired Options section on page 5, who is the mapping software provider for MoDOT's ATMS?
ANSWER 5
Delcan Inc.   Project Manager dan Bruno 4312 Clearbrook lane Imperial mo, 63052,   414-719-6087 d.bruno@delcan.com

QUESTION 6.

The RFP provides a broad category of vehicles. Can MoDOT provide a comprehensive list of vehicles to facilitate a detailed response to the desired option for "data from a vehicle data bus"?

ANSWER 6.
MoDOT's typical field equipment includes but is not limited to: International 7400 & 4900 series Dump trucks. John Deere 6620 & 7520 series Tractors. Chevy , Ford, and Dodge ½ tons pickups and a wide variety of other on road and off equipment, some of this equipment will not have a data bus. MoDOT is looking for the vendor to provide us with a proposal to track the above listed equipment and any future equipment that we may implement.

> (Our solutions serve both light trucks OBDII and heavy trucks (J1708 and J1939). The pricing varies slightly between the models.)

QUESTION 7.

Under desired features is a request to display vehicles ground temperature sensor output. Can MoDOT confirm the make and model of the road temperature sensor that is desired?

ANSWER 7.
The typical Pavement temperature sensors installed in MoDOT equipment is, but not limited to, the Sprague "RoadWatch"   Web site link attached. http://www.cvgrp.com/roadwatch.aspx

QUESTION 8.
 Is the capability to update every 30 secs a continuous requirement, or an on-demand requirement, such as when plowing a clover leaf?

ANSWER 8.
 If a vendors system is capable of updating to the 30 seconds or less requirements but does not recommend those frequencies at all times please include that in the proposal.
Is the 30 secs. or less the data logging rate or the frequency of real-time over the air updates. **Both** (Routine road data reporting intervals are normally treated as variable depending on the activity in progress and the curvature/grade of the road.) MoDOT is looking for the capability to update location every 30 seconds or less.

QUESTION 9.

The RFP does not specify the type of air interface. Does MoDOT have a preference for a private radio network, public wireless network or satellite? Does MoDOT have a preferred wireless carrier? Or an existing exclusive supply agreement with preferential data pricing?

ANSWER 9.

  MoDOT is looking to access the information from any computer that has internet explorer 5.0 or higher, whether or not the users are logging in from their MoDOT computer or looking up the data using a personal, hotel, or any other device that provides internet access as long as they have a user ID and password to log onto the site.

QUESTIION 10.
  RFP specifies portable tracking devices. Does this requirement allow for each vehicle to be wired with a harness to which the portable devices can be plugged and un-plugged?

ANSWER 10.
The RFP specifies a viewable "Map" that is accessed using Internet Explorer 5.0 or higher, if a proposal requires "hardware" for the tracking, or data collecting, please include the method and/or hardware that may or must be

needed to use the proposed system. As specified in the RFP if hardware is required it must not interfere with the ergonomics of the driver or the functionality of the equipment.

QUESTION 11

What is the skill level and time allotted for the transitioning of equipment from one vehicle to another?

ANSWER 11.
MoDOT is looking to each vendor to provide us with that information

QUESTION 12.

. How much time is allowed for the device to detect the vehicle databus?

ANSWER 12
MoDOT is looking to each vendor to provide us with that information

QUESTION 13.

For pre-2000 vehicles the vehicle may not always uniquely identify itself and therefore the system will need to identify the vehicle type. Does MoDOT prefer this action be taken by the installer/driver, or by dispatch?

ANSWER 13.
This is a Desired not Required option - MoDOT is looking to remotely collect Equipment Mileage/Equipment hours, Fuel consumption, and vehicle idle/running, if the equipment provides a data bus capable of those features. If the equipment does not have a data bus that provides the data we are looking to remotely view, then we are looking for the vendor to provide us with the listed Required options.

QUESTION 14.

Does MoDOT operate a proxy server? (Authentication of accounts through a Proxy Server can occasionally require the use of VPN connection to the web based services)

ANSWER 14.
We authenticate to our internet with a Radius server. We do not use a proxy server to authenticate to the internet or VPN, but we do have a VPN concentrator. It is preferred to do a IPSec LAN-to-LAN connection. MoDOT is looking to access the information from any computer that has internet explorer 5.0 or higher, whether or not the users are logging in from their MoDOT computer or looking up the data using a personal, hotel, or any other device that provides internet access as long as they have a user ID and password to log onto the site.

QUESTION 15.

Does MoDOT have a maintenance software package, such as JDEdwards to which the maintenance data is to be sent?
ANSWER 15.
Not at this time if a vendors system has that capability please include that in the proposal.

QUESTION 16.

Are vehicles either 12 or 24V DC? For changeable message boards will the device be powered from the available power, or is the system required to provide power from it's own battery/solar power? Is the equipment in question owned, or rented?

ANSWER 16.
The vast majority of the equipment is 12V DC some of the 24 V equipment includes but is not limited to: Champion Graders 720 and some older Gallion Graders; Case Front End Loaders models 14C, & 621 and John Deere model # 624's, & 544's. The changeable message board will be powered typically from the MoDOT owned Boards. Boards are similar, but not all comparable, to the Ver-Mac Model PCMS 1210. Web site link attached. http://www.ver-mac.com/products/index.html

QUESTION 17.
Please confirm that the FOB destination is Jefferson City, MO.

ANSWER 17.
For the initial purchase shipping will be to is St. Louis, MO

QUESTION 18.
What # of devices should the Bid Bond be based upon? (RFP says 40-60)

ANSWER 18.
60 units

QUESTION 19.

The RFP states; "Systems shall be accurate on vehicle speed within 5 miles per hour and 50 feet of unit location 95% of the time in the entire state of Missouri."

Question: Can you clarify "95% of the time"?

ANSWER 19.

MoDOT is looking for the equipment's Speed and Location data to be accurate within + or - 5% of the specified ranges (5mph and 50 feet)

QUESTION 20.
Are you referring only to the accuracy of the position or are you also referring to the systems ability to update every (30) seconds or less?

ANSWER 20.
If a vendors system is capable of updating to the 30 seconds or less requirements but does not recommend those frequencies at all times please include that in the proposal.

QUESTION 21.
As a follow up to the earlier question, if you are referring to updating, are you utilizing cellular coverage? If not cellular coverage are you utilizing an existing radio tower infrastructure?

ANSWER 21.

MoDOT is looking to each vendor to provide us with that information on how they intend to track the equipment and collect the information.

QUESTION 22

The RFP states; "Tracking units shall be portable".
Question: What do you consider portable?

ANSWER 22.

   MoDOT is looking for the flexibility of tracking one piece of equipment one day and using that hardware/system to track a different piece of equipment another day. Any required hardware of the system must be able to fit a wide variety of on-road and off-road equipment without interfering with the ergonomics of the driver or the operation of the equipment. MoDOT is looking to each vendor to provide us with that information.

QUESTION 23.

What is the power source?

ANSWER 23.

   The vast majority of the equipment is 12V DC some of the 24 V equipment includes but is not limited to: Champion Graders 720 and some older Gallion Graders; Case Front End Loaders models 14C, & 621 and John Deere model # 624's, & 544's. The changeable message board will be powered typically from the MoDOT owned Boards. Boards are similar, but not all comparable, to the Ver-Mac Model PCMS 1210. Web site link attached. http://www.ver-mac.com/products/index.html

QUESTION 24
What is the communication requirements?

ANSWER 24

 MoDOT is looking to each vendor to provide us with that information.